WHAT IS CLAIMED IS:

1. A disk drive comprising a rotating magnetic media having tracks identified by binary codewords, wherein each track codeword for a particular track within a contiguous band of tracks differs from a track codeword for an adjacent track within the contiguous band of tracks by a defined number N of bits, and differs from a track codeword for a nonadjacent track within the contiguous band of tracks by at least the defined number N of bits, wherein the defined number N of bits is greater than four such that at least two bit errors can be corrected when reading a track codeword.

2. A disk drive as defined in claim 1, wherein each track codeword comprises 23 bits and the defined number N of bits is 7 bits.

3. A disk drive as defined in claim 1, wherein each track codeword comprises 15 bits and the defined number N of bits is 5 bits.

4. A disk drive as defined in claim 1, wherein the contiguous band of tracks comprises between about 128 and 32,768 tracks.

5. A disk drive as defined in claim 1, wherein the contiguous band of tracks comprises about 2048 tracks.

6. A method for identifying tracks on a rotating magnetic media of a disk drive, comprising assigning each track within a contiguous bank of tracks with a unique binary codeword such that each track codeword for a particular track within the contiguous band of tracks differs from a track codeword for an adjacent track within the contiguous band of tracks by a defined number N of bits, and differs from a track codeword for a nonadjacent track within the contiguous band of tracks by at least the defined number N of bits, wherein the defined number N of bits is greater than four such that at least two bit errors can be corrected when reading a track codeword.

7. A method for identifying tracks as defined in claim 6, wherein each track codeword comprises 23 bits and the defined number N of bits is 7 bits.

8. A method for identifying tracks as defined in claim 6, wherein each track codeword comprises 15 bits and the defined number N of bits is 5 bits.

9. A method for identifying tracks as defined in claim 6, wherein the contiguous band of tracks comprises between about 128 and 32,768 tracks.

10. A method for identifying tracks as defined in claim 6, wherein the contiguous band of tracks comprises about 2048 tracks.